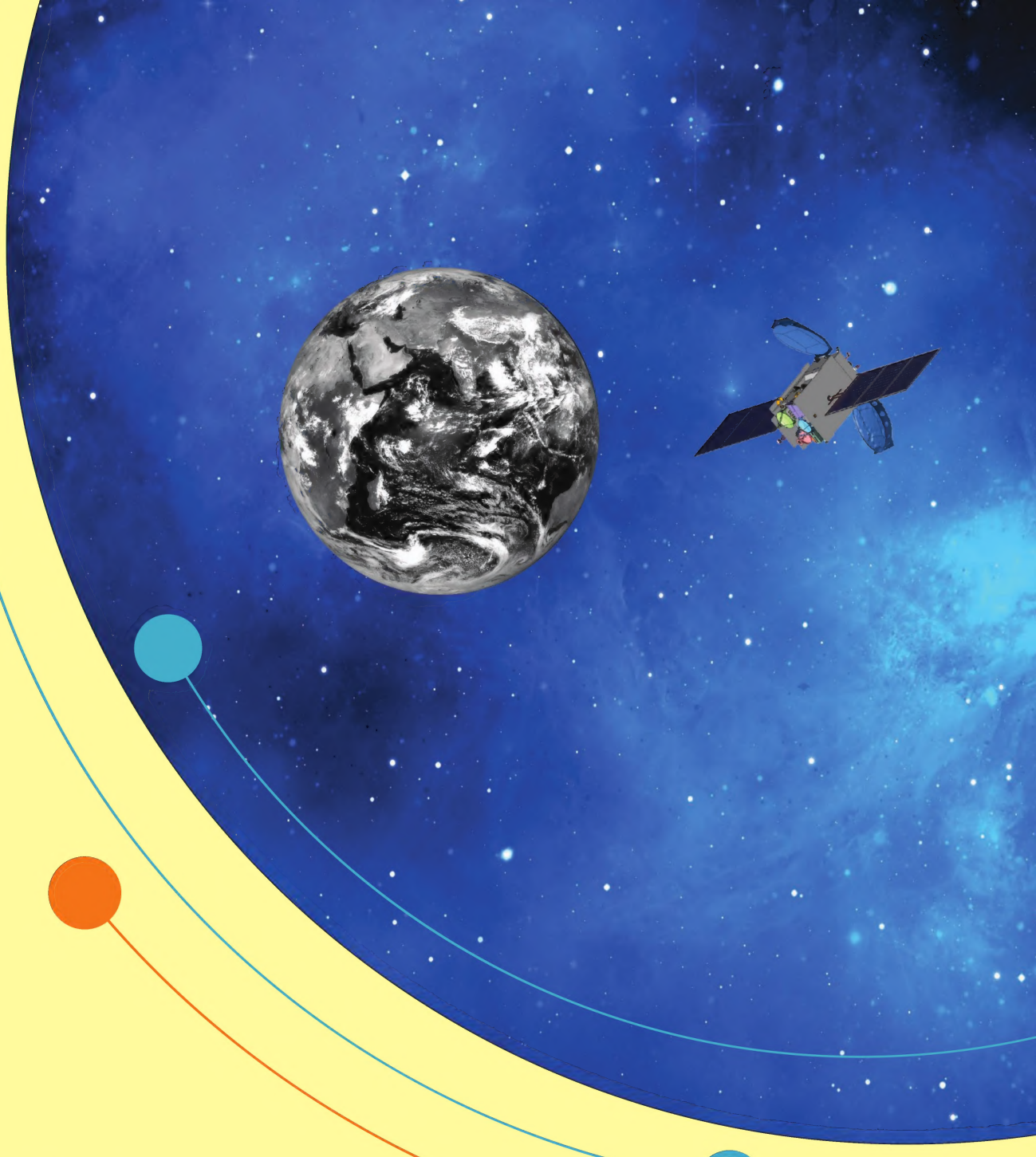

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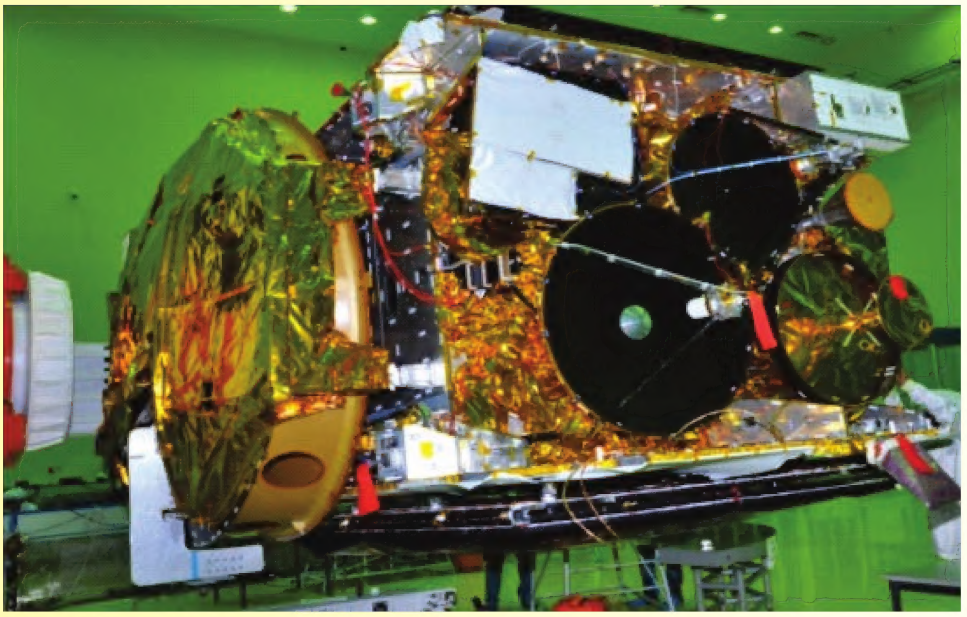
GSAT-17

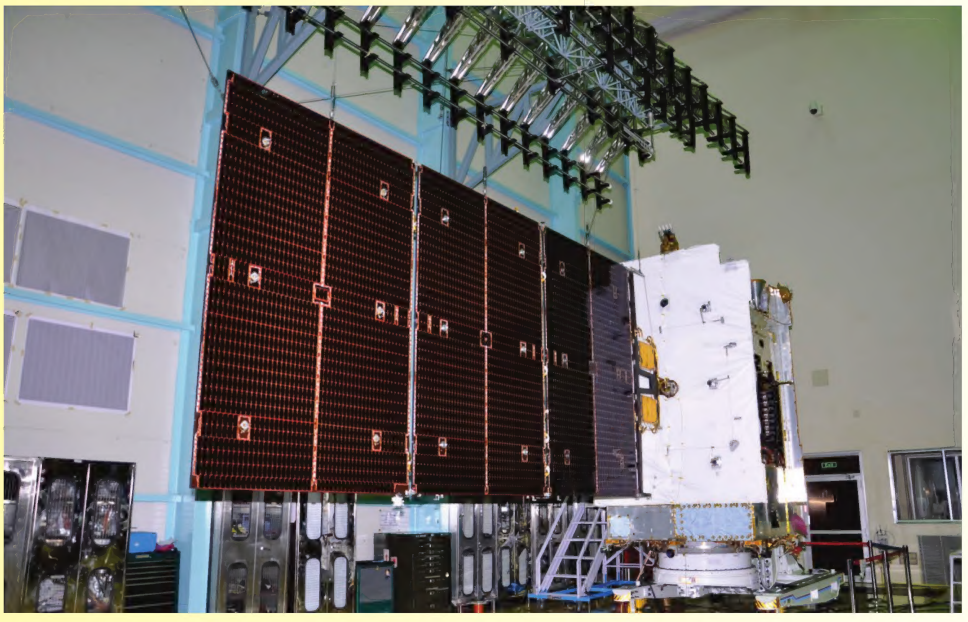
GSAT-17

Indian National Satellite (INSAT) system was established in 1983. Today, INSAT/GSAT system comprises satellites providing payloads in S, C, Extended-C, Ku and Ka-bands.



GSAT-17 in Clean Room

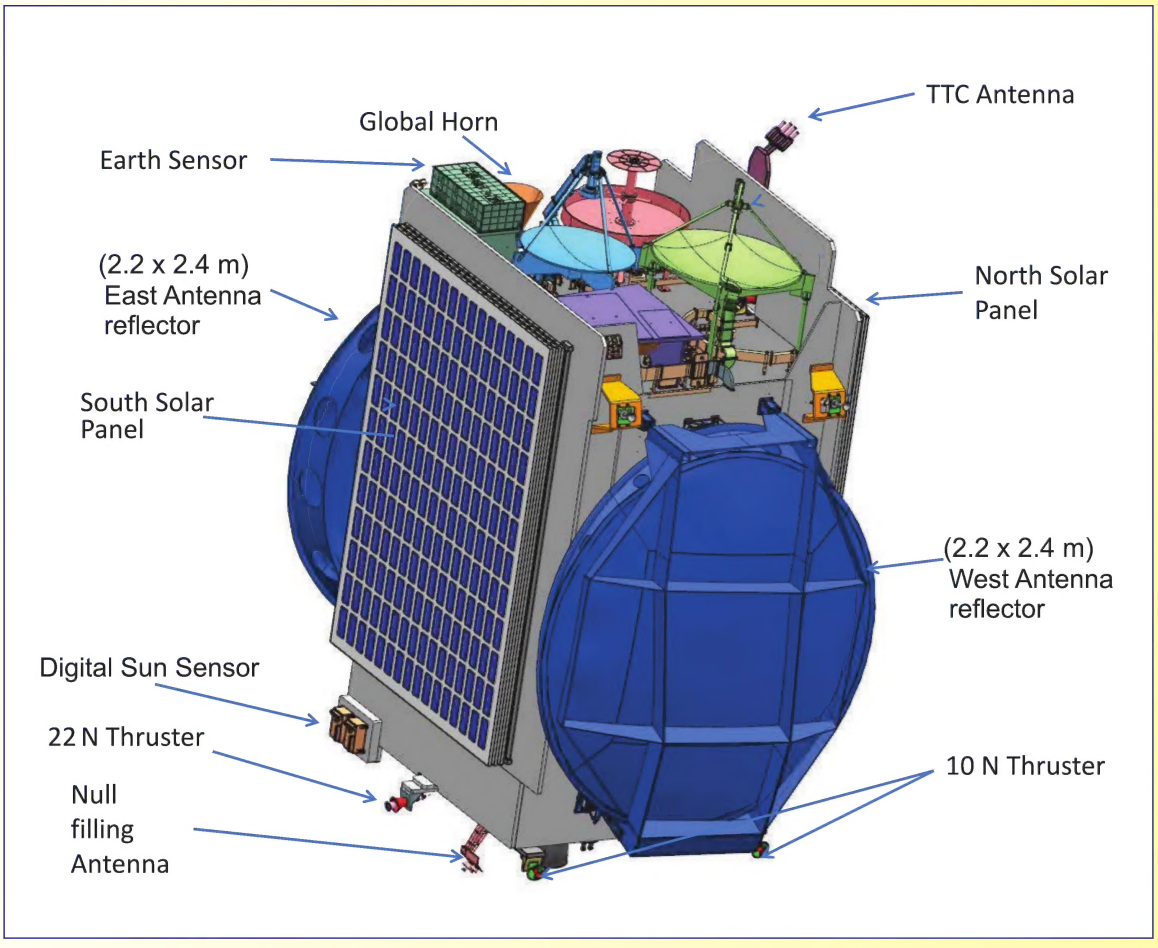
GSAT-17 is the latest satellite being inducted into the INSAT/GSAT system. Weighing 3477 kg at lift-off, GSAT-17 carries Payloads in Normal C, Extended C and S bands to provide various communication services. GSAT-17 also carries equipment for metereological data relay and satellite based search and rescue services being provided by earlier INSAT satellites.

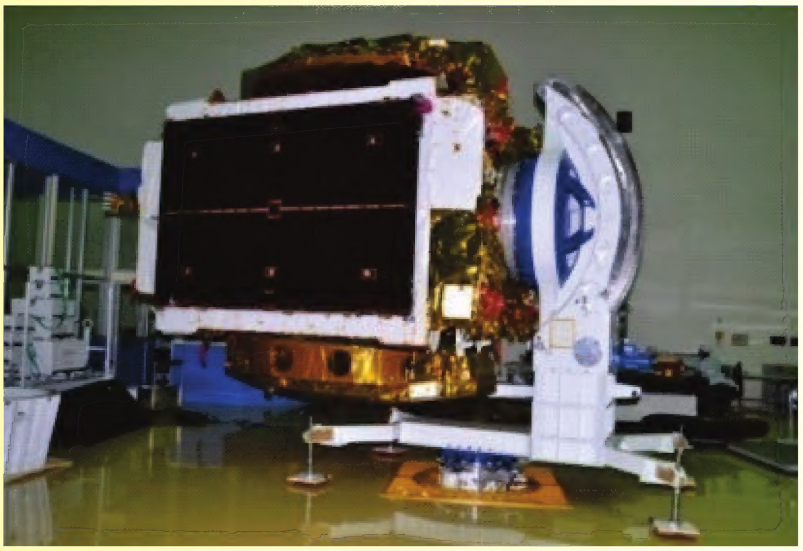


GSAT-17 with one of its solar arrays deployed during a test

SALIENT FEATURES

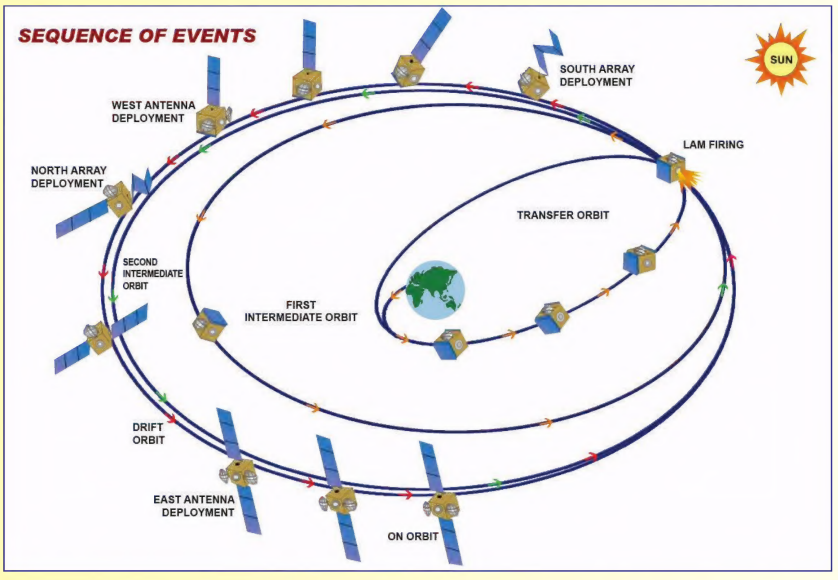
Services	:	Communication, Meteorological data relay and satellite based search and rescue
Orbit	:	Geostationary
Mission Life	:	About 15 years
Lift-off Mass	:	3477 kg
Dry mass	:	1480 kg
Spacecraft Control	:	3 Axis body stabilised
Propulsion System	:	Bi-propellant system
Power	:	6200 W from Solar arrays, Two 144 Ah Li-Ion batteries





GSAT-17 during a prelaunch test

GSAT-17 is designed to provide continuity of services of operational satellites in C, Extended C and S bands. GSAT-17 is launched into a Geosynchronous Transfer Orbit (GTO) by Ariane-5 VA-238 launch vehicle from Kourou, French Guiana. After its injection into GTO, ISRO's Master Control Facility (MCF) at Hassan takes control of GSAT-17 and performs the initial orbit raising maneuvers using the Liquid Apogee Motor (LAM) of the satellite, placing it in circular Geostationary Orbit.



GSAT-17 Mission Profile

The deployment of appendages such as the solar arrays and antennas as well as three axis stabilisation of the satellite will be performed during the final stages of orbit raising. This will be followed by the positioning of the satellite in its designated geostationary orbital slot. After on-orbit testing, the satellite will become operational. The designed in-orbit operational life of GSAT-17 is about 15 years.

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